

	Type	L #	Hits	Search Text	Dbs	Time Stamp	Co mm en ts	Err or Def ini tio n	Er ro rs
1	BRS	L1	50	oxygen adj labile	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:19		0	
2	BRS	L3	10887 8	antioxidant	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:20		0	
3	BRS	L4	17855 94	retinoid or choleciferol or (vitamin adj K) or tocopherol or (fatty acid) or tocotrienol	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:23		0	
4	BRS	L5	18760 4	niacin or thiamine or riboflavin or (folic adj acid) or pyrodoxine or (pantothenic adj acid) or niacinamide or (lipoic adj acid) or (dihydrolipoic adj acid) or (amino adj acid)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:26		0	
5	BRS	L6	27831	glycoprotein or lactoferrin or iniferine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:28		0	
6	BRS	L7	10767	(4 or 5) same 6	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:29		0	
7	BRS	L8	1047	7 same composition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:28		0	
8	BRS	L9	82	6 same stabilizer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:29		0	

	Type	L #	Hits	Search Text	Dbs	Time Stamp	Co mm en ts	Er r or Def ini tio n	Er ro rs
9	BRS	L10	29	(4 or 5) same 9	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:36			0
10	BRS	L11	7812	(ascorbic acid) same tocopherol	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:38			0
11	BRS	L12	2685	(ascorbic acid) same retinoid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:37			0
12	BRS	L14	222	(ascorbic acid) same tocopherol same retinoid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:38			0
13	BRS	L15	16	6 same 14	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:45			0
14	BRS	L16	189	6 same (11 or 15)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 11:45			0
15	BRS	L17	26	6 same (11 or 15) same composition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 12:02			0
16	BRS	L18	4685	thioxanthine or (uric adj acid)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 12:03			0
17	BRS	L19	125	(14 or 15 or 16 or 17 ) same 18	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 12:03			0
18	BRS	L20	5	19 same composition	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/12/0 4 12:03			0

=> d his

(FILE 'HOME' ENTERED AT 12:07:49 ON 04 DEC 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA'  
ENTERED AT

12:08:15 ON 04 DEC 2002

L1 · 854406 S RETINOID OR CHOLECIFEROL OR (VITAMIN K) OR  
TOCOPHEROL OR (FAT

L2 153425 S NIACIN OR THIAMINE OR RIBOFLAVIN OR (FOLIC ACID) OR  
PYRODOXIN

L3 1941377 S (LIPOIC ACID) OR (DIHYDROLIPOIC ACID) OR (AMINO ACID)

L4 537606 S GLYCOPROTEIN OR LACTOFERRIN OR INIFERINE

L5 47438 S (L1 OR L2 OR L3) (P) L4

L6 5207 S L5 (P) COMPOSITION

L7 6672 S (ASCORBIC ACID) (P) TOCOPHEROL

L8 - 178 S (ASCORBIC ACID) (P) RETINOID

L9 67 S (ASCORBIC ACID) (P) TOCOPHEROL (P) RETINOID

L10 5216 S (L6 OR L7 OR L8) (P) L4

L11 10 S (L9 OR L7 OR L8) (P) L4

L12 7 DUPLICATE REMOVE L11 (3 DUPLICATES REMOVED)

L13 64083 S THIOXANTHINE OR (URIC ACID)

L14 3 S L6 (P) L13

L15 2 DUPLICATE REMOVE L14 (1 DUPLICATE REMOVED)

L16 1 S L12 (P) L13

=> log y

FILE 'HOME' ENTERED AT 12:07:49 ON 04 DEC 2002

=> file medline caplus biosis embase scisearch agricola		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 12:08:15 ON 04 DEC 2002

FILE 'CAPLUS' ENTERED AT 12:08:15 ON 04 DEC 2002  
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FILE 'EMBASE' ENTERED AT 12:08:15 ON 04 DEC 2002  
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FILE 'SCISEARCH' ENTERED AT 12:08:15 ON 04 DEC 2002  
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FILE 'AGRICOLA' ENTERED AT 12:08:15 ON 04 DEC 2002

=> s retinoid or choleciferol or (vitamin K) or tocopherol or (fatty acid) or tocotrienol  
L1 854406 RETINOID OR CHOLECIFEROL OR (VITAMIN K) OR TOCOPHEROL OR (FATTY  
ACID) OR TOCOTRIENOL

=> s niacin or thiamine or riboflavin or (folic acid) or pyrodoxine or (pantothenic acid) or niaci  
5 FILES SEARCHED...  
L2 153425 NIACIN OR THIAMINE OR RIBOFLAVIN OR (FOLIC ACID) OR PYRODOXINE  
OR (PANTOTHENIC ACID) OR NIACINAMIDE

=> s (lipoic acid) or (dihydrolipoic acid) or (amino acid)  
4 FILES SEARCHED...  
L3 1941377 (LIPOIC ACID) OR (DIHYDROLIPOIC ACID) OR (AMINO ACID)

=> s glycoprotein or lactoferrin or iniferine  
L4 537606 GLYCOPROTEIN OR LACTOFERRIN OR INIFERINE

=> s (l1 or l2 or l3) same l4  
MISSING OPERATOR L3) SAME  
The search profile that was entered contains terms or  
nested terms that are not separated by a logical operator.

=> s (l1 or l2 or l3) (p) l4  
L5 47438 (L1 OR L2 OR L3) (P) L4

=> s l5 (p) composition  
L6 5207 L5 (P) COMPOSITION

=> s (ascorbic acid) (p) tocopherol  
L7 6672 (ASCORBIC ACID) (P) TOCOPHEROL

=> s (ascorbic acid) (p) retinoid  
L8 178 (ASCORBIC ACID) (P) RETINOID

=> s (ascorbic acid) (p) tocopherol (p) retinoid  
L9 67 (ASCORBIC ACID) (P) TOCOPHEROL (P) RETINOID

=> s (l6 or l7 or l8) (p) l4  
L10 5216 (L6 OR L7 OR L8) (P) L4

=> s (l9 or l7 or l8) (p) l4  
L11 10 (L9 OR L7 OR L8) (P) L4

=> duplicate remove l11  
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

=> d l12 1-7 ibib abs

L12 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2000:839120 CAPLUS  
DOCUMENT NUMBER: 134:21446  
TITLE: Compositions for stabilizing oxygen-labile  
pharmaceuticals  
INVENTOR(S): Kung, John; Liu, Jue-chen  
PATENT ASSIGNEE(S): Johnson & Johnson Consumer Companies, Inc., USA  
SOURCE: Eur. Pat. Appl., 17 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1055720	A2	20001129	EP 2000-304519	20000526
EP 1055720	A3	20010307		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2309520	AA	20001128	CA 2000-2309520	20000525
JP 2001011441	A2	20010116	JP 2000-158635	20000529
CN 1284327	A	20010221	CN 2000-118833	20000529
BR 2000003780	A	20010403	BR 2000-3780	20000616
US 2002123460	A1	20020905	US 2001-33492	20011227
PRIORITY APPLN. INFO.:			US 1999-136442P P	19990528
			US 1999-361425 A	19990727

AB This invention relates to compns. and methods for stabilizing oxygen-labile species. More particularly, it relates to compns. contg. 1 or more oil- and/or water-sol. oxygen-labile species and one or more stabilizing elements. It also relates to methods of making such compns. and methods of using such compns. Thus, a formulation contained water 73.96, disodium EDTA 0.20, phenoxyethanol 0.73, methylparaben 0.20, propylparaben 0.07 and hydroxyethyl cellulose 1.00% for the water phase; BHT 0.10, GMS 2.00 cetearyl glucoside 3.000, C12-15 alkyl benzoate 2.00, avobenzene 2.00, octyl methoxycinnamate 4.00, and ascorbyl palmitate 0.50% for the oil phase; \*\*\*ascorbic\*\*\* 5.00, \*\*\*tocopherol\*\*\* 0.05, retinol 0.25, \*\*\*lactoferrin\*\*\* and thioxanthine and uric acid 1.00, N-acetylcysteine 0.01, EtOH 2.78 and 20% NaOH 9.04% as the additives. After a 13-wk incubation at 40.degree., 90% vitamin C and 96% vitamin A remained in the compn.

L12 ANSWER 2 OF 7 SCISEARCH COPYRIGHT 2002 ISI (R)  
ACCESSION NUMBER: 2001:159948 SCISEARCH  
THE GENUINE ARTICLE: 401PJ  
TITLE: Antioxidative factors in milk  
AUTHOR: Lindmark-Mansson H (Reprint); Akesson B  
CORPORATE SOURCE: Swedish Dairy Assoc, Scheelevagen 18, SE-22363 Lund, Sweden (Reprint); Swedish Dairy Assoc, SE-22363 Lund, Sweden; Univ Lund, Ctr Chem & Chem Engr, Div Biomed Nutr, SE-22100 Lund, Sweden  
COUNTRY OF AUTHOR: Sweden  
SOURCE: BRITISH JOURNAL OF NUTRITION, (NOV 2000) Vol. 84, Supp. [1], pp. S103-S110.  
Publisher: C A B INTERNATIONAL, C/O PUBLISHING DIVISION, WALLINGFORD OX10 8DE, OXON, ENGLAND.  
ISSN: 0007-1145.  
DOCUMENT TYPE: Article; Journal  
LANGUAGE: English  
REFERENCE COUNT: 71

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*  
AB Lipid auto-oxidation in milk is affected by a complex interplay of pro- and antioxidants. Several of these compounds are also important nutrients in the human diet and may have other physiological effects in the gastrointestinal tract and other tissues. Among antioxidative enzymes superoxide dismutase catalyses the dismutation of superoxide anion to hydrogen peroxide. The degradation of hydrogen peroxide can be catalysed

by catalase and the selenoprotein glutathione peroxidase. The latter enzyme can also degrade lipid peroxides. Lactoferrin may have an important role by binding pro-oxidative iron ions. The occurrence of different forms of these antioxidative proteins in milk and available data on their functional role are reviewed. More remains to be learnt of individual compounds and as an example the potential role of seleno compounds in milk is virtually unknown. Antioxidative vitamins in milk can provide an important contribution to the daily dietary intake. Moreover vitamin E and carotenoids act as fat-soluble antioxidants, e.g. in the milk fat globule membrane, which is regarded as a major site of auto-oxidation. Vitamin C is an important water-soluble antioxidant and interacts in a complex manner with iron and fat-soluble antioxidants. The concentrations of these compounds in milk are affected by cow feeding rations and milk storage conditions. Since milk contains a number of antioxidants many reactions are possible and the specific function of each antioxidant cannot easily be defined. There are indications that other compounds may have antioxidative function and measurement of total antioxidative capacity should be a useful tool in evaluating their relative roles.

L12 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:389749 CAPLUS

DOCUMENT NUMBER: 129:159433

TITLE: New development in the research of hepatic stellate cells

AUTHOR(S): Senoo, Haruki; Imai, Katsuyuki; Matano, Yoshikazu; Sato, Mitsuru

CORPORATE SOURCE: Second Department of Anatomy, Akita University School of Medicine, Akita, 010-8543, Japan

SOURCE: Akita Igaku (1998), 25(1), 31-51

CODEN: AKIGDV; ISSN: 0386-6106

PUBLISHER: Akita Daigaku Igakubu

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

AB A review with 73 refs. Hepatic stellate cells (interstitial cells, vitamin A-storing cells, lipocytes, fat-storing cells) exist in the perisinusoidal space (space of Disse) of the hepatic lobule, and store 80% of vitamin A in the whole body as retinyl palmitate in lipid droplets in the cytoplasm. In physiol. conditions, these cells play pivotal roles in the regulation of vitamin A homeostasis; they express specific receptors for retinol-binding protein (RBP), a carrier protein specific for retinol, on their cell surface, and take up the complex of retinol and RBP by receptor-mediated endocytosis. Whereas, in pathol. conditions such as liver fibrosis, these cells lose \*\*\*retinoids\*\*\*, and synthesize a large amt. of extracellular matrix (ECM) components including collagen, proteoglycan and adhesive \*\*\*glycoproteins\*\*\*. Morphol. of these cells also changes from the star-shaped stellate cells to that of fibroblasts or myofibroblasts. Three-dimensional structure of ECM components reversibly regulates the morphol., proliferation, and functions of the hepatic stellate cells. These regulations are mediated by direct cellular adhesion to ECM, matrix adhesion signals, and modulation of cytoskeletons. "Extrahepatic stellate cells" that distribute in various organs except the liver also play pivotal roles in vitamin A homeostasis. L- \*\*\*Ascorbic\*\*\* acid 2-phosphate (a long-acting vitamin C deriv.) can stimulate proliferation of the stellate cells and promote three-dimensional liver-like structure in the co-culture system of hepatic parenchymal cells and mesenchymal cells.

L12 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:424579 CAPLUS

DOCUMENT NUMBER: 122:211375

TITLE: Effect of sera of preeclampsia on thrombomodulin activity on cultured endothelial cells

AUTHOR(S): Tosaki, Mamoru

CORPORATE SOURCE: Department of Obstetrics and Gynecology, Kyoto Prefectural University of Medicine, Japan

SOURCE: Kyoto-furitsu Ika Daigaku Zasshi (1995), 104(1), 59-69

CODEN: KFIZAO; ISSN: 0023-6012

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Preeclampsia is thought to be a chronic DIC induced by endothelial cell injury. Thrombomodulin (TM) is a surface \*\*\*glycoprotein\*\*\* on endothelial cells, and represents one of the most valuable regulatory

factors in the anticoagulant system. In this paper, the effects of sera of preeclampsia, thrombin, lipid peroxide, and antioxidant (.alpha.-\*\*\*tocopherol\*\*\* and \*\*\*ascorbic\*\*\* \*\*\*acid\*\*\* ) on the TM activity on human umbilical vein endothelial cells (HUVECs) were investigated. Sera of mild preeclampsia up-regulated TM activity on HUVECs compared with sera of normal pregnancy. Although sera of severe preeclampsia up-regulated TM activity, the effect were much smaller than that of mild preeclampsia. The neg. correlation between Gestosis Index (Index of severity of preeclampsia) and TM activity was revealed. Thrombin increased TM activity in the dose up to 10<sup>-4</sup> NIH units/mL, and large dose (10<sup>-3</sup> NIH units/mL) of thrombin decreased TM activity. TBH, one of lipid peroxide, decreased the TM activity dose-dependently. .alpha.-\*\*\*Tocopherol\*\*\* and ascorbate increased TM activity, but only .alpha.-\*\*\*tocopherol\*\*\* prevented the down-regulation of TM activity induced by TBH. These results suggest that .alpha.-\*\*\*tocopherol\*\*\* might be useful for the protection of TM activity on the endothelial cell from injuries induced by preeclampsia.

L12 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1  
 ACCESSION NUMBER: 1995:105201 CAPLUS  
 DOCUMENT NUMBER: 122:28276  
 TITLE: Cell biology of the perisinusoidal stellate cells (vitamin A-storing cells) -from the viewpoint of retinoid metabolism and function of extracellular matrix  
 AUTHOR(S): Senoo, Haruki; Hata, Ryu-ichiro  
 CORPORATE SOURCE: Sch. Med., Tokyo Med. Dental Univ., Tokyo, 113, Japan  
 SOURCE: Bitamin (1994), 68(9), 501-13  
 CODEN: BTMNA7; ISSN: 0006-386X  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: Japanese

AB A review with 33 refs. Stellate cells (vitamin A-storing cells, lipocytes, fat-storing cells, Ito cells) exist in the perisinusoidal space of the hepatic lobule, and store 80% of \*\*\*retinoids\*\*\* in the whole body as retinyl palmitate in lipid droplets in the cytoplasm. Under physiol. conditions, these cells play key roles in the control of \*\*\*retinoid\*\*\* homeostasis; they express specific receptors for retinol-binding protein (RBP), a binding protein specific for retinol, on their cell surface, and take up the complex of retinol and RBP by receptor-mediated endocytosis. Whereas, under pathol. conditions such as liver cirrhosis, these cells lose \*\*\*retinoids\*\*\*, and synthesize a large amt. of extracellular matrix (ECM) components including collagen, proteoglycan and adhesive \*\*\*glycoproteins\*\*\*. Morphol. of these cells also changes from the star-shaped stellate cells to that of fibroblasts or myofibroblasts. ECM components regulate the morphol., proliferation and function of the stellate cells. \*\*\*Ascorbic\*\*\* \*\*\*acid\*\*\* 2-phosphate, and long-acting vitamin C deriv., further modulates this cellular regulation by ECM components.

L12 ANSWER 6 OF 7 MEDLINE DUPLICATE 2  
 ACCESSION NUMBER: 92137057 MEDLINE  
 DOCUMENT NUMBER: 92137057 PubMed ID: 1723362  
 TITLE: Drug antioxidant effects. A basis for drug selection?.  
 AUTHOR: Halliwell B  
 CORPORATE SOURCE: Pulmonary Medicine, UC Davis Medical Center, Sacramento.  
 SOURCE: DRUGS, (1991 Oct) 42 (4) 569-605. Ref: 233  
 Journal code: 7600076. ISSN: 0012-6667.  
 PUB. COUNTRY: New Zealand  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, ACADEMIC)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals; AIDS  
 ENTRY MONTH: 199203  
 ENTRY DATE: Entered STN: 19920329  
 Last Updated on STN: 19960129  
 Entered Medline: 19920306

AB A free radical is any species capable of independent existence that contains one or more unpaired electrons. Free radical reactions have been implicated in the pathology of more than 50 human diseases. Radicals and other reactive oxygen species are formed constantly in the human body, both by deliberate synthesis (e.g. by activated phagocytes) and by

chemical side-reactions. They are removed by enzymic and nonenzymic antioxidant defence systems. Oxidative stress, occurring when antioxidant defences are inadequate, can damage lipids, proteins, carbohydrates and DNA. A few clinical conditions are caused by oxidative stress, but more often the stress results from the disease. Sometimes it then makes a significant contribution to the disease pathology, and sometimes it does not. Several antioxidants are available for therapeutic use. They include molecules naturally present in the body [superoxide dismutase (SOD), alpha-\*\*\*tocopherol\*\*\*, glutathione and its precursors, \*\*\*ascorbic\*\*\*, \*\*\*acid\*\*\*, adenosine, \*\*\*lactoferrin\*\*\* and carotenoids] as well as synthetic antioxidants [such as thiols, ebselen (PZ51), xanthine oxidase inhibitors, inhibitors of phagocyte function, iron ion chelators and probucol]. The therapeutic efficacy of SOD, alpha-\*\*\*tocopherol\*\*\* and \*\*\*ascorbic\*\*\*, \*\*\*acid\*\*\* in the treatment of human disease is generally unimpressive to date although dietary deficiencies of the last two molecules should certainly be avoided. Xanthine oxidase inhibitors may be of limited relevance as antioxidants for human use. Exciting preliminary results with probucol (antiatherosclerosis), ebselen (anti-inflammatory), and iron ion chelators (in thalassaemia, leukaemia, malaria, stroke, traumatic brain injury and haemorrhagic shock) need to be confirmed by controlled clinical trials. Clinical testing of N-acetylcysteine in HIV-1-positive subjects may also be merited. A few drugs already in clinical use may have some antioxidant properties, but this ability is not widespread and drug-derived radicals may occasionally cause significant damage.

L12 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1962:69105 CAPLUS

DOCUMENT NUMBER: 56:69105

ORIGINAL REFERENCE NO.: 56:13367g-i

TITLE: Factors influencing the photodynamic response of Paramecium caudatum to 3,4-benzopyrene

AUTHOR(S): Epstein, Samuel S.; Burroughs, Marjorie

CORPORATE SOURCE: Children's Hosp. Med. Center, Boston, MA

SOURCE: Nature (1962), 193, 337-8

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB The photodynamic response of Paramecium to 3,4-benzopyrene was completely inhibited under anaerobic conditions and thus involved a photooxidn. process. Butylated hydroxyanisole and .alpha.-\*\*\*tocopherol\*\*\* protected against photo-dynamic toxicity, whereas \*\*\*ascorbic\*\*\*, \*\*\*acid\*\*\*, Pr gallate, and butylated hydroxytoluene were ineffective. Reducing substances with free thiol groups gave minimal protection. Of the various bovine plasma proteins tested, greatest protection was afforded by .beta.-lipoprotein and .alpha.-globulin S. F. IV-4, whereas the protective effects of .gamma.-globulin, albumin, and \*\*\*glycoprotein\*\*\* were negligible. Pronounced protection was afforded by non-ionic wetting agents in the TweenR series. Enhancement of the photodynamic response was obtained with mono- or bivalent anions of Na and K salts, increased pH, and by the addn. of cells from aging cultures.

=> d his

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FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 12:08:15 ON 04 DEC 2002

L1 854406 S RETINOID OR CHOLECIFEROL OR (VITAMIN K) OR TOCOPHEROL OR (FAT  
L2 153425 S NIACIN OR THIAMINE OR RIBOFLAVIN OR (FOLIC ACID) OR PYRODOXIN  
L3 1941377 S (LIPOIC ACID) OR (DIHYDROLIPOIC ACID) OR (AMINO ACID)  
L4 537606 S GLYCOPROTEIN OR LACTOFERRIN OR INIFERINE  
L5 47438 S (L1 OR L2 OR L3) (P) L4  
L6 5207 S L5 (P) COMPOSITION  
L7 6672 S (ASCORBIC ACID) (P) TOCOPHEROL  
L8 178 S (ASCORBIC ACID) (P) RETINOID  
L9 67 S (ASCORBIC ACID) (P) TOCOPHEROL (P) RETINOID  
L10 5216 S (L6 OR L7 OR L8) (P) L4  
L11 10 S (L9 OR L7 OR L8) (P) L4  
L12 7 DUPLICATE REMOVE L11 (3 DUPLICATES REMOVED)

=> s thioxanthine or (uric acid)



L13 64083 THIOXANTHINE OR (URIC ACID)

=> s 16 (p) 113

L14 3 L6 (P) L13

=> duplicate remove 114

DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, EMBASE'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L14

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=> d 115 1-2 ibib abs

L15 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:839120 CAPLUS

DOCUMENT NUMBER: 134:21446

TITLE: Compositions for stabilizing oxygen-labile pharmaceuticals

INVENTOR(S): Kung, John; Liu, Jue-chen

PATENT ASSIGNEE(S): Johnson & Johnson Consumer Companies, Inc., USA

SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1055720	A2	20001129	EP 2000-304519	20000526
EP 1055720	A3	20010307		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2309520	AA	20001128	CA 2000-2309520	20000525
JP 2001011441	A2	20010116	JP 2000-158635	20000529
CN 1284327	A	20010221	CN 2000-118833	20000529
BR 2000003780	A	20010403	BR 2000-3780	20000616
US 2002123460	A1	20020905	US 2001-33492	20011227
PRIORITY APPLN. INFO.:			US 1999-136442P P	19990528
			US 1999-361425 A	19990727

AB This invention relates to \*\*\*compns\*\*\* and methods for stabilizing oxygen-labile species. More particularly, it relates to \*\*\*compns\*\*\* contg. 1 or more oil- and/or water-sol. oxygen-labile species and one or more stabilizing elements. It also relates to methods of making such \*\*\*compns\*\*\* and methods of using such \*\*\*compns\*\*\*. Thus, a formulation contained water 73.96, disodium EDTA 0.20, phenoxyethanol 0.73, methylparaben 0.20, propylparaben 0.07 and hydroxyethyl cellulose 1.00% for the water phase; BHT 0.10, GMS 2.00 cetearyl glucoside 3.000, C12-15 alkyl benzoate 2.00, avobenzone 2.00, octyl methoxycinnamate 4.00, and ascorbyl palmitate 0.50% for the oil phase; ascorbic acid 5.00, \*\*\*tocopherol\*\*\* 0.05, retinol 0.25, \*\*\*lactoferrin\*\*\* and \*\*\*thioxanthine\*\*\* and \*\*\*uric\*\*\* \*\*\*acid\*\*\* 1.00, N-acetylcysteine 0.01, EtOH 2.78 and 20% NaOH 9.04% as the additives. After a 13-wk incubation at 40.degree., 90% vtamin C and 96% vitamin A remained in the \*\*\*compn\*\*\*.

L15 ANSWER 2 OF 2

MEDLINE

DUPLICATE 1

ACCESSION NUMBER: 80103416 MEDLINE

DOCUMENT NUMBER: 80103416 PubMed ID: 392766

TITLE: The composition of human milk.

AUTHOR: Jenness R

SOURCE: SEMINARS IN PERINATOLOGY, (1979 Jul) 3 (3) 225-39. Ref: 107

Journal code: 7801132. ISSN: 0146-0005.

Report No.: PIP-001980; POP-00086486.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Population

ENTRY MONTH: 198003

ENTRY DATE: Entered STN: 19900315

AB Mature human milk contains 3%--5% fat, 0.8%--0.9% protein, 6.9%--7.2% carbohydrate calculated as lactose, and 0.2% mineral constituents expressed as ash. Its energy content is 60--75 kcal/100 ml. Protein content is markedly higher and carbohydrate content lower in colostrum than in mature milk. Fat content does not vary consistently during lactation but exhibits large diurnal variations and increases during the course of each nursing. Race, age, parity, or diet do not greatly affect milk \*\*\*composition\*\*\* and there is no consistent compositional difference between milks from the two breasts unless one is infected. The principal proteins of human milk are a casein homologous to bovine beta-casein, alpha-lactalbumin, \*\*\*lactoferrin\*\*\*, immunoglobulin IgA, lysozyme, and serum albumin. Many enzymes and several "minor" proteins also occur. The essential \*\*\*amino\*\*\* \*\*\*acid\*\*\* pattern of human milk closely resembles that found to be optimal for human infants. Possible special functions of milk proteins and enzymes other than as a source of \*\*\*amino\*\*\* \*\*\*acids\*\*\*, are as yet largely speculative. The principal sugar of human milk is lactose but 30 or more oligosaccharides, all containing terminal Gal-(beta 1,4)-Glc and ranging from 3--14 saccharide units per molecule are also present. These may amount in the aggregate to as much as 1 g/100 ml in mature milk and 2.5 g/100 ml in colostrum. Some of them may function to control intestinal flora because of their ability to promote growth of certain strains of lactobacilli. Human milk fat is characterized by high contents of palmitic and oleic acids. the former heavily concentrated in the 2-position and the latter in the 1- and 3-positions of the triglycerides. \*\*\*Fatty\*\*\* \*\*\*acid\*\*\* \*\*\*composition\*\*\* of milk fat varies somewhat with the \*\*\*composition\*\*\* of diet, particularly the \*\*\*fatty\*\*\* \*\*\*acids\*\*\* which it supplies. Phospholipids, amounting in the aggregate to about 75 mg/100 ml, include phosphatidyl ethanolamine, phosphatidyl choline, phosphatidyl serine, phosphatidyl inositol, and sphingomyelin. The principal mineral constituents of human milk are Na, K, Ca, Mg, P, and Cl. Calcium concentrations reported in various studies vary from 25--35 mg/100 ml. Phosphorus at 13--16 mg/100 ml is much more constant but is lower in proportion to casein and calcium than in milks of most other species. Iron, copper, and zinc contents of human milk vary considerably. A long list of other trace elements has been reported. About 25% of the total nitrogen of human milk represents nonprotein compounds including urea, \*\*\*uric\*\*\* \*\*\*acid\*\*\*, creatine, creatinine, and a large number of \*\*\*amino\*\*\* \*\*\*acids\*\*\*. Of the latter, glutamic acid and taurine are prominent. All of the vitamins, except K, are found in human milk in nutritionally significant concentrations. A complete and authentic picture of the qualitative and quantitative \*\*\*composition\*\*\* of the milk of Homo sapiens is presented. Older original references are reexamined along with data published during the last 2 decades. Mature human milk is made up of 3%-5% fat, 0.8%-0.9% protein, 6.9%-7.2% carbohydrate calculated as lactose, and 0.2% mineral constituents expressed as ash. The energy content is 60-75 kcal/100ml. Protein content is considerably higher and carbohydrate content lower in colostrum than in mature milk. Fat content does not vary consistently during lactation but exhibits large diurnal variations and increases during the course of each nursing. Race, age, parity, or diet fail to have a great affect on milk \*\*\*composition\*\*\*. There is no consistent compositional difference between milks from the 2 breasts unless 1 breast is infected. The principal proteins of human milk are a casein homologous to bovine B-casein, a-lactalbumin, \*\*\*lactoferrin\*\*\*, immunoglobulin IgA, lysozyme, and serum albumin. Lactose is the principal sugar of human milk. Human milk fat is characterized by high contents of palmitic and oleic acids, the former heavily concentrated in the 2-position and the latter in the 1- and 3-positions of the triglycerides. The principal mineral constituents of human milk are Na, K, Ca, Mg, P, and Cl. About 25% of the total nitrogen of human milk represents nonprotein compounds. These include urea, \*\*\*uric\*\*\* \*\*\*acid\*\*\*, creatine, creatinine, and a large number of \*\*\*amino\*\*\* \*\*\*acids\*\*\*.

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(FILE 'HOME' ENTERED AT 12:07:49 ON 04 DEC 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT

12:08:15 ON 04 DEC 2002

L1 854406 S RETINOID OR CHOLESTEROL OR (VITAMIN K) OR TOCOPHEROL OR (FAT  
L2 153425 S NIACIN OR THIAMINE OR RIBOFLAVIN OR (FOLIC ACID) OR PYRODOXIN  
L3 1941377 S (LIPOIC ACID) OR (DIHYDROLIPOIC ACID) OR (AMINO ACID)  
L4 537606 S GLYCOPROTEIN OR LACTOFERRIN OR INIFERINE  
L5 47438 S (L1 OR L2 OR L3) (P) L4  
L6 5207 S L5 (P) COMPOSITION  
L7 6672 S (ASCORBIC ACID) (P) TOCOPHEROL  
L8 178 S (ASCORBIC ACID) (P) RETINOID  
L9 67 S (ASCORBIC ACID) (P) TOCOPHEROL (P) RETINOID  
L10 5216 S (L6 OR L7 OR L8) (P) L4  
L11 10 S (L9 OR L7 OR L8) (P) L4  
L12 7 DUPLICATE REMOVE L11 (3 DUPLICATES REMOVED)  
L13 64083 S THIOXANTHINE OR (URIC ACID)  
L14 3 S L6 (P) L13  
L15 2 DUPLICATE REMOVE L14 (1 DUPLICATE REMOVED)

=> s l12 (p0 l13

MISSING OPERATOR 'L78 (P0'

The search profile that was entered contains terms or  
nested terms that are not separated by a logical operator.

=> s l12 (p) l13

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L98 (P) L81'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L100 (P) L82'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'L104 (P) L84'  
L16 1 L12 (P) L13

=> d l16 1 ibib abs

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2000:839120 CAPLUS  
DOCUMENT NUMBER: 134:21446  
TITLE: Compositions for stabilizing oxygen-labile  
pharmaceuticals  
INVENTOR(S): Kung, John; Liu, Jue-chen  
PATENT ASSIGNEE(S): Johnson & Johnson Consumer Companies, Inc., USA  
SOURCE: Eur. Pat. Appl., 17 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1055720	A2	20001129	EP 2000-304519	20000526
EP 1055720	A3	20010307		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2309520	AA	20001128	CA 2000-2309520	20000525
JP 2001011441	A2	20010116	JP 2000-158635	20000529
CN 1284327	A	20010221	CN 2000-118833	20000529
BR 2000003780	A	20010403	BR 2000-3780	20000616
US 2002123460	A1	20020905	US 2001-33492	20011227
PRIORITY APPLN. INFO.:			US 1999-136442P	P 19990528
			US 1999-361425	A 19990727

AB This invention relates to compns. and methods for stabilizing  
oxygen-labile species. More particularly, it relates to compns. contg. 1  
or more oil- and/or water-sol. oxygen-labile species and one or more  
stabilizing elements. It also relates to methods of making such compns.  
and methods of using such compns. Thus, a formulation contained water  
73.96, disodium EDTA 0.20, phenoxyethanol 0.73, methylparaben 0.20,  
propylparaben 0.07 and hydroxyethyl cellulose 1.00% for the water phase;  
BHT 0.10, GMS 2.00 cetearyl glucoside 3.000, C12-15 alkyl benzoate 2.00,  
avobenzene 2.00, octyl methoxycinnamate 4.00, and ascorbyl palmitate 0.50%  
for the oil phase; \*\*\*ascorbic\*\*\* \*\*\*acid\*\*\* 5.00,  
\*\*\*tocopherol\*\*\* 0.05, retinol 0.25, \*\*\*lactoferrin\*\*\* and  
\*\*\*thioxanthine\*\*\* and \*\*\*uric\*\*\* \*\*\*acid\*\*\* 1.00,

N-acetylcysteine 0.01, EtOH 2.58 and 20% NaOH 9.04% as the additives.  
After a 13-wk incubation at 40 degree., 90% vitamin C and 96% vitamin A  
remained in the compn.

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L16 1 S L12 (P) L13

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	99.81	100.02
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.34	-4.34

STN INTERNATIONAL LOGOFF AT 12:19:57 ON 04 DEC 2002